



Form PTO-1449 (modified)

List of Patents and Publications for Applicant's

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Atty. Docket No.

ANMA:001US

Serial No.

10/806,049

Applicant

Mark E. Ander

Filing Date:

March 22, 2004

Group:

2856

U.S. Patent Documents

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Foreign Patent Documents

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Other Art

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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
R	A1	4,040,189	8/09/77	LaCoste	33	304	9/22/76
R	A2	4,457,077	7/03/84	Lautzenhiser	33	304	7/05/83
R	A3	4,457,168	7/03/84	Lautzenhiser and Wirtz	73	382R	3/10/83
R	A4	4,475,386	10/09/84	Fitch and Lyle	73	151	6/06/83
R	A5	4,803,479	2/07/89	Graebner <i>et al.</i>	340	854.1	10/21/87
R	A6	4,517,836	5/21/85	Lyle, Jr. and Luke	73	152.06	10/25/83
R	A7	4,581,932	4/15/86	Lautzenhiser and Nekt	73	382G	12/20/84
R	A8	4,602,508	7/29/86	Fitch and Lyle, Jr.	73	382G	10/04/84
R	A9	4,625,547	12/02/86	Lyle, Jr.	73	152.05	12/23/85
R	A10	5,218,864	6/15/93	Pennybaker	73	152.05	12/10/91
R	A11	5,448,912	9/12/95	Black	73	152.02	4/29/94
R	A12	5,821,413	10/13/98	Chapin	73	152.05	4/10/97
R	A13	5,970,787	10/26/99	Wignall	73	152.54	10/29/97

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
R	B1	WO 96/10759	4/11/96	PCT	—	—	English

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
R	C1	Adams, "Gas saturation monitoring in North Oman Reservoir using a borehole gravimeter," SPE Middle East Oil Show, in Baharain, Nov. 16-19, 1991.

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### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
R	C2	Alixant <i>et al.</i> , "First monitoring well in the rabi filed: design and data gathering," <i>Society of Petroleum Engineers</i> , SPE 28399, 1994.
R	C3	Alixant <i>et al.</i> , "In-situ residual oil saturation to gas from time-lapse borehole gravity," <i>Society of Petroleum Engineers</i> , SPE 30609, 1995.
R	C4	Ander and Chapin, "Borehole gravimetry: a review," <i>Society of Exploration Geophysics 67<sup>th</sup> Annual International Meeting Expanded Abstracts</i> , Dallas, GM 3.1, 531-534, Nov. 2-7, 1997.
R	C5	Ander and Chapin, "Borehole microgal gravimetry: instruments, observations, and applications," <i>Abstracts of the American Geophysical Union Chapman Conference on Microgravimetry: Instrumentation, Observations and Applications</i> , Flagler College, St. Augustine, FL, March 3-6, 1997.
R	C6	Ander and Summers, "The deep penetration density logging tool," <i>Transactions of the 16<sup>th</sup> European Formation Evaluation Symposium, Society of Professional Well Log Analysts</i> , Aberdeen, Scotland, October, 1994.
	C7	Ander, "Borehole gravity applications and market potential," <i>Ander Laboratory</i> , 2003.
	C8	Ander <i>et al.</i> , "Deep penetration density: a new borehole gravity meter," <i>Society of Exploration Geophysics-69<sup>th</sup> Annual International Meeting Expanded Abstracts</i> , Houston, 1999.
	C9	Ander <i>et al.</i> , "LaCoste & Romberg gravity meter: system analysis and instrumental errors," <i>Geophysics</i> , 64:1708-1719, 1999.
R	C10	Ander and Summers, "LaCoste & Romberg gravity meter: tares, drift and temporal mass variation," <i>Society of Exploration Geophysics 67<sup>th</sup> Annual International Meeting Expanded Abstracts</i> , Dallas, GM 1.8, 498-501, Nov. 2-7, 1997.
R	C11	Beyer, "Borehole gravity program of the U.S. Geological Survey (1963-1975)—brief history and basic data," <i>USGS Open File Report</i> , 80-903, July, 12, 1980.
R	C12	Black <i>et al.</i> , "A digital borehole gravity logging system," <i>Second International Symposium on Borehole Geophysics for Minerals, Geotechnical, and Ground Water Application</i> , October, 6-8, 1987.
R	C13	Bradley, "The application of the borehole gravimeter to the evaluation and exploration of oil and gas reserves," <i>Society of Exploration Geophysicists, 45<sup>th</sup> Annual International Meeting Expanded Abstracts</i> , Denver.

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Exam. Init.	Ref. Des.	Citation
<i>f</i>	C14	Bradley, "The commercial application and interpretation of the borehole gravimeter," AMOCO Production Company, Report.
<i>R</i>	C15	Caton, "Improved methods for reducing borehole-gravity data—application sand analyses of reduced gravity plots," <i>SPWLA 22<sup>nd</sup> Annual Logging Symposium</i> , June 23-26, 1981.
<i>R</i>	C16	Chapin <i>et al.</i> , "Advances in deep-penetration density logging," <i>Society of Petroleum Engineers</i> , SPE 59689, 2000.
	C17	<del>Chapin and Ander, "New life for borehole gravity?" <i>The Explorer, American Association of Petroleum Geology</i>, 20:24-25, 1999.</del>
	C18	<del>Chapin and Ander, "Applying gravity in petroleum exploration," In: <i>American Association Petroleum Geologists Treatise of Petroleum Geology Handbook, Exploring for Oil and Gas Traps</i>, ed. E.A. Beaumont and N.H. Foster, Chapter 15, 1999.</del>
<i>f</i>	C19	EDCON Borehole gravity meter brochure #1. <i>No date</i>
<i>f</i>	C20	EDCON Borehole gravity meter brochure #2. <i>No date</i>
<i>f</i>	C21	EDCON Borehole gravity meter brochure #3. <i>No date</i>
<i>f</i>	C22	EDCON Borehole Gravity Density Logging Report. <i>No date</i>
<i>f</i>	C23	EDCON, Inc., Proposal for the development of a guide to borehole gravity use in salt dome oil and gas investigations, July 15, 1994.
<i>f</i>	C24	Folle and Rolfs, "Gravimeter yields rock density for cavern during operations," <i>Oil &amp; Gas J.</i> , Jan 22, 1996.
<i>f</i>	C25	Gas Research Institute, "New borehole tool provides more accurate downhole density determination for thin beds," <i>GRI Technology Focus</i> .
	C26	<del>Gas Research Institute, Tech Profile, "More accurate borehole gravity tool for thin beds:"</del>
<i>R</i>	C27	Gournay and Lyle, "Determination of hydrocarbon saturation and porosity using a combination borehole gravimeter (BHGM) and deep investigating electric log," <i>Society of Professional Well Log Analysts, 25<sup>th</sup> Annual Logging Symposium</i> , 1-13, June 10-13, 1984.
<i>R</i>	C28	Gournay and Maute, "Detection of bypassed gas using borehole gravimeter and pulsed neutron capture logs," <i>The Log Analyst</i> , May-June, 27-32, 1982.

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Exam. Init.	Ref. Des.	Citation
R	C29	Hare <i>et al.</i> , "The 4-D microgravity method for waterflood surveillance: a model study for the Prudhoe Bay reservoir, Alaska," <i>Geophysics</i> , 64(1):78-87, 1999.
R	C30	Hearst <i>et al.</i> , "Potential uses for a high-temperature borehole gravimeter," <i>Lawrence Livermore Laboratory</i> , UCRL-52421, March 8, 1978.
R	C31	Herring, "Introduction to borehole gravity," <i>EDCON report</i> , February, 1990.
R	C32	Jageler, "Improved hydrocarbon reservoir evaluation through use of borehole gravimeter data," <i>Society of Petroleum Engineers of AIME</i> , SPE 5511, 1975.
R	C33	Labo, "A practical introduction to borehole geophysics," <i>Society of Exploration of Geophysicists, Geophysical Reference Series No. 2</i> , Chapter 9, 1987.
	C34	LaCoste & Romberg Flier, Borehole Gravity Logging Services, Bypassed Pay Opportunities.
	C35	LaCoste & Romberg Flier, Borehole Gravity Logging Services, Deep Penetration Density Data Quality.
	C36	LaCoste & Romberg Flier, Borehole Gravity Logging Services, How Deep Penetration Density Logging is Valuable at Today's Low Oil Prices.
	C37	LaCoste & Romberg Flier, Borehole Gravity Logging Services, How Deep Penetration Density Logging Works.
	C38	LaCoste & Romberg Flier, Borehole Gravity Logging Services, Production Monitoring.
	C39	LaCoste & Romberg Flier, Borehole Gravity Logging Services, Selected Annotated Bibliography.
	C40	LaCoste & Romberg Flier, Borehole Gravity Logging Services.
R	C41	LaFehr, "Rock density from borehole gravity surveys," <i>Geophysics</i> , 48(30):341-356, 1983.
R	C42	Li and Chouteau, "On density derived from borehole gravity," <i>The Log Analyst</i> , 40(1):33-37, 1999.
R	C43	MacQueen, "Inversion of borehole gravimeter data," <i>Borehole Geophysics 3: Hardware and Methods</i> , 57-58.
R	C44	McCalpin, "Operational and technical results of a multiwell borehole gravity survey," <i>Unconventional Methods in Exploration IV</i> , 313-320.

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R	C45	McCullough <i>et al.</i> , "The U.S. Geological Survey- LaCoste and Romberg precise borehole gravimeter system-instrumentation and support equipment," <i>Geological Survey Research</i> , D92-D100, 1967.
R	C46	McCullough, "Application of gravity measurements in wells to problems of reservoir evaluation," <i>SPWLA 9<sup>th</sup> Annual Logging Symposium</i> , June 23-26, 1968.
R	C47	McCullough <i>et al.</i> , "The U.S. Geological Survey-LaCoste and Romberg precise borehole gravimeter system-test results," <i>Geological Survey Research</i> , D101-D112, 1967.
R	C48	Orange and Howe, "Borehole gravity meter applications to natural gas exploration and development," <i>Emerald Exploration Consultants</i> , 1987.
R	C49	Popta and Adams, "Gravity gains momentum," <i>Middle East Well Evaluation Review</i> , November 12, 1992.
	C50	<del>Popta <i>et al.</i>, "Use of borehole gravimetry for reservoir characterisation and fluid saturation monitoring," <i>Society of Petroleum Engineers</i>, SPE 20896, 151-157, 1990.</del>
R	C51	Rasmussen, "Borehole gravity survey planning and operations," <i>SPWLA 14<sup>th</sup> Annual Logging Symposium</i> , May 6-9, 1973.
R	C52	Rasmussen, "The successful use of the borehole gravity meter in Northern Michigan," <i>The Log Analyst</i> , 3-10, 1975.
R	C53	Robbins, "Bibliography with abridged abstracts of subsurface gravimetry (especially borehole) and corresponding in-situ rock density determinations," <i>Open-file Report</i> , 80-710, 1980.
R	C54	Schultz, "Monitoring fluid movement with the borehole gravity meter," <i>Geophysics</i> , 54(10):1267-1273, 1989.
	C55	<del>Shell Oil, "Borehole gravimetry: a single-well deep-reading method for reservoir management," December 1995.</del>
R	C56	Smith, "The case for gravity data from boreholes," <i>Geophysics</i> , 15(4):605-636, 1950.
R	C57	Valliant, "Gravity meter calibration at LaCoste and Romberg," <i>Geophysics</i> , 56(5):705-711, 1991.

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